PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 22 March 2001 (22.03.01)	in its capacity as elected Office
International application No. PCT/SE00/01206	Applicant's or agent's file reference 56307-60473
International filing date (day/month/year) 09 June 2000 (09.06.00)	Priority date (day/month/year) 11 June 1999 (11.06.99)
Applicant	
PERSSON, Charlotte	
in the demand filed with the International Prelimina 10 January 20 in a notice effecting later election filed with the International Prelimina	001 (10.01.01)
2. The election X was was was not was not made before the expiration of 19 months from the priority Rule 32.2(b).	date or, where Rule 32 applies, within the time limit under

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Claudio Borton

Telephone No.: (41-22) 338.83.38

Copy for the Elected Office (EO/US)

PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU				
PCT	То:				
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 22 March 2001 (22.03.01)	LINDE J. Albihns Stockholm AB P.O. Box 5581 S-114 85 Stockholm SUÈDE				
Applicant's or agent's file reference					
56307-60473	IMPORTANT NOTIFICATION				
International application No. PCT/SE00/01206	International filing date (day/month/year) 09 June 2000 (09.06.00)				
The following indications appeared on record concerning: the applicant	X the agent the common representative State of Nationality State of Residence				
BERG, S., A. Albihns Patentbyrå Stockholm AB P.O. Box 5581 S-114 85 Stockholm Sweden	Telephone No. +46 8 59 88 72 00 Facsimile No. +46 8 59 88 73 00 Teleprinter No. 11942 ALBIHNS S				
2. The International Bureau hereby notifies the applicant that the	he following change has been recorded concerning:				
the person X the name the add					
Name and Address	State of Nationality State of Residence				
LINDE J. Albihns Stockholm AB P.O. Box 5581 S-114 85 Stockholm Sweden	Telephone No. +46 8 59 88 72 00 Facsimile No.				
	+46 8 59 88 73 00				
	Teleprinter No. 11942 ALBIHNS S				
3. Further observations, if necessary: The indication of a new company's name of the agent on the Demand (Form PCT/IPEA/401) has been considered a request for recording a change under Rule 92bis. In case of disagreement, the International Bureau should be notified immediately.					
4. A copy of this notification has been sent to:					
X the receiving Office	the designated Offices concerned				
the International Searching Authority	X the elected Offices concerned				
X the International Preliminary Examining Authority	other:				
The Language of the Company of the C	Authorized officer				
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Claudio Borton				
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38				

Form PCT/IB/306 (March 1994)

003916226

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 56307-60473	FOR FURTHER ACTION	see Notification of T (Form PCT/ISA/22	Transmittal of International Search Report 0) as well as, where applicable, item 5 below.			
International application No.	International filing date	(day month year)	(Earliest) Priority Date (day month year)			
PCT/SE 00/01206	9 June 2000		11 June 1999			
Applicant			·			
SCA Hygiene Products AB e	t al					
		<u> </u>				
This international search report has applicant according to Article 18. A	been prepared by this In copy is being transmitted	ternational Searchi I to the Internation	ing Authority and is transmitted to the nal Bureau.			
This international search report con-	•					
It is also accompanied by a	a copy of each prior art o	locument cited in t	his report.			
1. Certain claims were found	unsearchable (See Box I)	•				
2. Unity of invention is lackin	g (See Box II).					
3. The international application international search was ca	3. The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing					
· · · · · · · · · · · · · · · · · · ·	filed with the internationa					
furnished by the applicant separately from the international application,						
	but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.					
	transcribed by this Author	ority.				
	•	·	·			
4. With regard to the title,	the text is approved as s	ubmitted by the ap	plicant.			
4. Willi regard to are time,	the text has been establis		. 1			
A	bsorbent article	that contain	s an active additive and			
			n absorbent article.			
5. With regard to the abstract,	the text is approved as su	showitted by the an	olicant			
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the text has been established, according to Rule 38.2(b), by this Authority as in Box III. The applicant may, within one month from the date of mailing of national search report, submit comments to this Authority.						
6. The figure of the drawings to be published with the abstract is: Single No as suggested by the applicant. None of the figure No None of the figure No N						
Figure No			None of the figures.			
because the applicant failed to suggest a figure. because this figure better characterizes the invention.						
	necouse any ugare near	,				

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant	's or a	gent's file reference	T		
56307-6			FOR FURTHER ACTION	See Notific Preliminary	cation of Transmittal of International y Examination Report (Form PCT/IPEA/416)
1		pplication No.	International filing date (day/mont		Priority date (day/month/year)
PCT/SE			09/06/2000		11/06/1999
Internation A61L15		atent Classification (IPC) or na	tional classification and IPC		
Applicant					
SCA HY	GIE	NE PRODUCTS AB et a	al.		
1. This and i	interi is trai	national preliminary exami nsmitted to the applicant a	nation report has been prepared coording to Article 36.	d by this Inte	rnational Preliminary Examining Authority
2. This	REP	ORT consists of a total of	5 sheets, including this cover s	heet.	
~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	arrichaed and are the basi	I by ANNEXES, i.e. sheets of th is for this report and/or sheets o 7 of the Administrative Instruction	ontaining roc	n, claims and/or drawings which have ctifications made before this Authority
		nexes consist of a total of 2		one ander the	e i Oi).
					
3. This r	epon	t contains indications relati	ing to the following items:		
1	\boxtimes	Basis of the report			
H		Priority			
III		Non-establishment of op-	inion with regard to novelty, inve	entive stan a	and industrial annihability
IV		Lack of unity of invention	ı	chilve Step a	nd industrial applicability
٧	×	Reasoned statement und		ovelty, inven	ntive step or industrial applicability;
VI		Certain documents cited	1		
VII		Certain defects in the inte			
VIII			the international application		
Date of submission of the demand		Date of co	ompletion of thi	is report	
0/01/2001		10.09.200	10.09.2001		
Name and mailing address of the international preliminary examining authority:		Authorize	Authorized officer		
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			pmu d Doming	ues, H	Caraca Car
Fax: +49 89 2399 - 4465				No. +49 89 2	399 7810

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SE00/01206

	I.	Basis	of the	re	por
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1. With regard to the elements of the international application (Replacement sheets which have be the receiving Office in response to an invitation under Article 14 are referred to in this report as and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70. Description, pages:					eport as "originally filed"		
	1-7	,	as published				
	Cla	aims, No.:					
	2		as published				
	1,3	-7	as received on	21/06/2001	with letter of	21/06/2001	
	140						
2.	lan	h regard to the lang guage in which the i	juage, all the elements marked international application was file	above were a ed, unless oth	available or furnished erwise indicated und	d to this Authority in the der this item.	
	The	ese elements were a	available or furnished to this Au	thority in the f	ollowing language:	, which is:	
		the language of a	translation furnished for the pur	poses of the i	nternational search	(under Rule 23.1(b)).	
			blication of the international ap				
			translation furnished for the pur			examination (under Rule	
3.	Witl inte	h regard to any nuc rnational preliminan	leotide and/or amino acid sec y examination was carried out o	quence disclo on the basis o	sed in the internation f the sequence listin	nal application, the g:	
		contained in the inf	ternational application in writter	form.			
		filed together with t	the international application in c	computer read	lable form.		
	☐ furnished subsequently to this Authority in written form.						
	☐ furnished subsequently to this Authority in computer readable form.						
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that listing has been fur	the information recorded in col mished.	mputer readat	ole form is identical t	to the written sequence	
4.	The amendments have resulted in the cancellation of:						
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SE00/01206

5. A This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

see separate sheet

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1,4,5,6,7

No:

Claims 2,3

Inventive step (IS)

Yes:

Claims 1,4,5,6,7

No:

Claims 2,3

Industrial applicability (IA)

Yes:

Claims 1-7

No:

Claims

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

1. Concerning section I

The amended claim 2 does not comply with the requirements of Art. 19 (2) PCT because its content extends beyond the application as filed. In fact, no reference could be found in the description to an absorbent article comprising a visual indicator, characterised in that the visual indicator changes colour in response to a change in pH or a change in the moisture content of the part of the absorbent article in proximity of the active additive. Therefore, the IPER has been established as if this claim had not been amended (see Rule 70.2(c) PCT).

2. Concerning section VIII

Lack of clarity, Art. 6 PCT

Claim 2 is not properly dependent (Rule 6.4 PCT) on claim 1, because the visual indicator mentioned therein is said to change colour in response to a change in pH or a change in the moisture content of the absorbent article. This means that said visual indicator would indicate changes in the pH or moisture content of parts of the absorbent article other than the active additive. This is in agreement with the statements on pg. 5, line 6-8 - "the visual indicator shows a colour change when the absorbent article has taken up moisture....". On the other hand, the indicator of claim 1 refers to the activity status of the active additive substance.

Considering claim 2 as an independent claim, no novelty (Art. 33(2) PCT) or inventive step (Art. 33(3) PCT) can be acknowledged due to the disclosures in the prior art (see section V, below).

3. Concerning section V

Novelty, Art. 33(2) PCT

Claim 2 is considered an independent claim directed to an absorbent article comprising a visual indicator, characterised in that the visual indicator changes colour in response to a change in pH or a change in the moisture content of the absorbent article, and therefore it lacks novelty in light of the prior art discussed below.

D2 describes an absorbent article (a diaper) comprising wetness or pH indicating adhesive compositions that change colour in response to a change in wetness or in pH, respectively. Acidbase indicators, which change colour in response to pH changes, such as Ethyl Red and

INTERNATIONAL PRELIMINARY International application No. PCT/SE00/01206 EXAMINATION REPORT - SEPARATE SHEET

Bromophenol Blue, are said to be preferred (see pg. 6, line 6-12 and 15-18). Disposable diapers with a wetness indicator are also disclosed in **D3** (abstract, pg. 1, pg. 3, line 33-35, pg. 4, line 15-17, line 22-25; see also claims). Said indicator comprises a pH indicator that can be bromophenol blue (see claim 1 and 2). According to claim 3, this system can change colour in response to changes in atmospheric moisture. **D4** also discloses absorbent articles (disposable paper products, such as napkins) having an indicator that provides visually recognisable signs when the paper becomes wet (abstract and column 2). In view of the cited disclosures, it is clear that absorbent articles containing a visual indicator that changes colour in response to changes in the pH or moisture content of the absorbent article are state of the art, and therefore **claim 2 and dependent claim 3** cannot be considered novel (Art. 33(2) PCT).

4. An absorbent article that includes at least one active additive substance according to the invention, characterised in that the absorbent article comprises a visual indicator that indicates the activity status of the active additive has not been disclosed in the prior art. Therefore, claim 1 and its dependent claims 4-7 appear to be novel and inventive.

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Claims:

- 1. An absorbent article, such as a diaper, a panty liner, an incontinence protector, a napkin, or a tampon that includes at least one active additive substance, **characterised** in that the absorbent article comprises a visual indicator that indicates the activity status of the active additive.
- 2. An absorbent article according to Claim I, characterised in that the visual indicator changes colour in response to a change in pH or a change in the moisture content of the part of the absorbent article in proximity of the active additive.
- 3. An absorbent article according to any one of Claims 1 or 2, characterised in that the visual indicator is comprised of methyl red, methyl violet, methyl orange, bromocresol lilac, Acid Blue 80, blue dye Calcocid Blue 2G, ethyl red, bromophenol blue, bromocresol green, preferably methyl orange, methyl red or methyl violet.
- An absorbent article according to any one of Claims 1-3, characterised in that the active additive is a micro-organism, preferably an acid producing micro-organism, more preferably a lactobacillus, and still more preferably a lactobacillus of the strain
 Lactobacillus plantarum LB931 (DSM No. 41918).
 - 5. An absorbent article according to any one of Claims 1-3, characterised in that the active substance is an acid, preferably citric acid, lactic acid or acid SAP.
- 6. An absorbent article according to any one of Clams 1-5, characterised in that the visual indicator is placed on one of the uppermost layers of the absorbent product; and in that the visual indicator can be detected on the surface of the product.
- 7. The use of a visual indicator in an absorbent article, such as a diaper, a panty liner, an incontinence protector, a napkin or a tampon, that includes at least one active

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additive substance, which indicator provides an indication of the activity status of said active additive substance.

Empf.zeit:21/06 AMENDED SHEET